

IN FILE 'CAPLUS' AT 12:21:11 ON 16 DEC 2007

=> d his

(FILE 'HOME' ENTERED AT 12:16:54 ON 16 DEC 2007)

FILE 'CAPLUS' ENTERED AT 12:17:10 ON 16 DEC 2007

L1 E US20040209119/PN
1 S E3
DELETE SELECT Y
SEL L1 RN 1-

— Application 10/801.113

FILE 'REGISTRY' ENTERED AT 12:18:16 ON 16 DEC 2007

L2 4 S E1-E4

FILE 'REGISTRY' ENTERED AT 12:19:00 ON 16 DEC 2007

L3 SET TERMSET E#
DEL SEL Y
SEL L2 1 RN
1 S E1/RN
SET TERMSET LOGIN

FILE 'CAPLUS' ENTERED AT 12:19:04 ON 16 DEC 2007

L4 3 S L3

=>

EAST Search History

10/801,113

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|-------|---------|--|---|------------------|---------|------------------|
| L1 | 1 | "10/801113" | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2007/12/16 12:25 |
| L2 | 38497 | benzimidazole | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2007/12/16 12:28 |
| L3 | 1235 | 2 same (host or light-emit\$ or emissive or LEL or luminescen\$ or coumarin) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2007/12/16 12:30 |
| L4 | 1248920 | (428/690 428/917 313/504 313/506 257/98 252/301.16).ccls. or electrolumines\$ or oled or light-emit\$ or emissive or luminescent or luminescence or (light same (display or device)) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2007/12/16 12:27 |
| L5 | 564 | 3 and 4 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2007/12/16 12:27 |
| L6 | 5234 | benzimidazol\$ near5 (benzene or phenyl) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2007/12/16 12:29 |
| L7 | 74 | 5 and 6 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2007/12/16 12:30 |
| L8 | 0 | "benzimidazolyl)benzene" | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2007/12/16 12:29 |
| L9 | 2 | (\$benzimidazolyl-benzene) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2007/12/16 12:29 |
| L10 | 0 | (\$benzimidazol2\$-benzene) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2007/12/16 12:29 |
| L11 | 242 | 2 same host | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2007/12/16 12:30 |

EAST Search History

| | | | | | | |
|-----|-----|---|---|----|----|------------------|
| L12 | 110 | 11 and 4 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2007/12/16 12:30 |
| L13 | 154 | 7 or 12 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2007/12/16 12:30 |
| L14 | 140 | host and l13 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2007/12/16 12:30 |
| L15 | 140 | (host or guest or fluoresc\$ or \$coumarin or coumarin\$ or dopant or doping or dope or doped) and l14 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2007/12/16 13:43 |
| L16 | 140 | (host or guest or fluoresc\$ or \$coumarin or coumarin\$ or dopant or doping or dope or doped) and 14 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2007/12/16 14:10 |
| L17 | 3 | "20020055014" and (fluorescenc\$ or dye or coumarin) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2007/12/16 13:51 |
| L18 | 4 | "6876684".pn. "6171715".pn. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2007/12/16 14:28 |
| L19 | 2 | "20040161004" | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2007/12/16 14:09 |
| L20 | 1 | 16 and "6876684".pn. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2007/12/16 14:16 |
| L21 | 28 | ("4768292" "5141671" "5150006" "5151629" "5405709" "5484922" "5593788" "5645948" "5683823" "5755999" "5928802" "5935720" "5935721" "6020078").pn. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2007/12/16 14:18 |
| L22 | 14 | ("4768292" "5141671" "5150006" "5151629" "5405709" "5484922" "5593788" "5645948" "5683823" "5755999" "5928802" "5935720" "5935721" "6020078").pn. | USPAT | OR | ON | 2007/12/16 14:18 |

EAST Search History

| | | | | | | |
|-----|---|-------------------------|---|----|----|------------------|
| L23 | 2 | "5645948".pn. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2007/12/16 14:45 |
| L24 | 0 | "5645948".pn. and pixel | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2007/12/16 14:45 |

L4 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2007:472961 CAPLUS
DOCUMENT NUMBER: 147:108388
TITLE: Zero to Three Dimensional Increase of Silver(I)
Coordination Assemblies Controlled by Deprotonation of
1,3,5-Tri(2-benzimidazolyl)benzene and Aggregation of
Multinuclear Building Units
AUTHOR(S): Li, Xiang-Ping; Zhang, Jian-Yong; Pan, Mei; Zheng,
Sheng-Run; Liu, Yu; Su, Cheng-Yong
CORPORATE SOURCE: MOE Laboratory of Bioinorganic and Synthetic
Chemistry, State Key Laboratory of Optoelectronic
Materials and Technologies, School of Chemistry and
Chemical Engineering, Sun Yat-Sen University,
Guangzhou, 510275, Peop. Rep. China
SOURCE: Inorganic Chemistry (Washington, DC, United States)
(2007), 46(11), 4617-4625
CODEN: INOCAJ; ISSN: 0020-1669
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English

ABSTRACT:

Four Ag(I) complexes of a triangular multidentate ligand 1,3,5-tri(2-benzimidazolyl)benzene (H3TBimB), namely, [Ag2(H3TBimB)2](CF3SO3)2 (1), [Ag4(HTBimB)2]n (2), [Ag9(HTBimB)4(TAZ)]n (HTAZ = 1,2,4-triazole) (3), and [Ag17(TBimB)5(HTBimB)(H2O)5]n·nH2O (4), were synthesized at different pH values adjusted by addition of NH3·H2O under solvothermal conditions and characterized by x-ray single-crystal diffraction. Complex 1 shows an M2L2 dimeric structure, 2 displays a 1-dimensional chain containing M4L2 basic units, 3 is a two-dimensional network built up from an M9L4 subunit, and 4 exhibits a three-dimensional framework generated by an M17L6 motif. Dimensional increase in complexes 1-4 was caused by deprotonation of the H3TBimB ligand, thus offering more coordinating donors and resulting in aggregation of oligomeric Ag(I) building units. In the cases of complexes 3 and 4, TAZ or H2O mols. serve as auxiliary ligands to complete the coordination geometry of the Ag(I) ions wherever necessary. The photoluminescent properties of the ligand H3TBimB and the complexes 1-3 were studied.

REFERENCE COUNT: 13 THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2006:1218079 CAPLUS
DOCUMENT NUMBER: 147:365225
TITLE: Novel synthetic method for triacetylbenzene
AUTHOR(S): Zhang, Bin; Gao, Yong; Li, Jian Li; Shi, Zhen
CORPORATE SOURCE: Department of Chemistry, Northwest University, Xi'an,
710069, Peop. Rep. China
SOURCE: Chinese Chemical Letters (2006), 17(9), 1165-1168
CODEN: CCLEE7; ISSN: 1001-8417
PUBLISHER: Chinese Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English

ABSTRACT:

Triacetylbenzene was prepared from tribenzimidazolium salt and Grignard reagent. The addition-hydrolysis reaction of tribenzimidazolium salt with Grignard reagent is reported and a novel method for preparation of triacetylbenzene is provided.

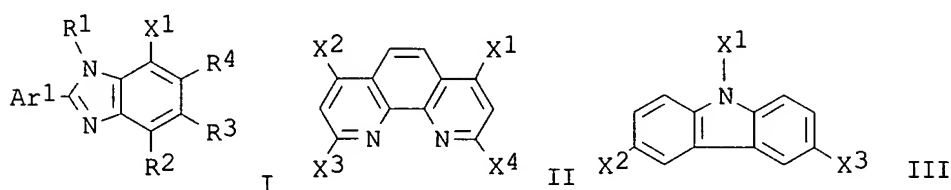
REFERENCE COUNT: 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2004:837677 CAPLUS
DOCUMENT NUMBER: 141:340119
TITLE: Electroluminescent devices with high luminescence

intensity and efficiency
 INVENTOR(S): Seo, Tetsushi; Yamazaki, Hiroko
 PATENT ASSIGNEE(S): Semiconductor Energy Laboratory Co., Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 27 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------------|-------------------|----------|-----------------|------------|
| JP 2004288439 | A | 20041014 | JP 2003-77875 | 20030320 |
| US 2004209119 | A1 | 20041021 | US 2004-801113 | 20040316 |
| PRIORITY APPLN. INFO.: | | | JP 2003-77875 | A 20030320 |
| OTHER SOURCE(S): | MARPAT 141:340119 | | | |
| GRAPHIC IMAGE: | | | | |



ABSTRACT:

The devices, useful for display devices, have emitter layers containing host materials and guest materials both having common structures I (R1 = H, lower alkyl, aryl, heterocyclic ring residue; R2-R5 = H, halo, lower alkyl, alkoxy, acyl, etc.; Ar1 = aryl, heterocyclic ring residue), II (X1-X4 = H, halo, lower alkyl, alkoxy acyl, etc.), or III (X1-X3 = H, halo, lower alkyl, alkoxy acyl, etc.) between pairs of electrodes.

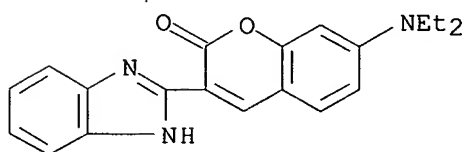
L2 ANSWER 4 OF 4 REGISTRY COPYRIGHT 2007 ACS on STN
RN 27425-55-4 REGISTRY
ED Entered STN: 16 Nov 1984
CN 2H-1-Benzopyran-2-one, 3-(1H-benzimidazol-2-yl)-7-(diethylamino)- (CA
INDEX NAME)

OTHER CA INDEX NAMES:

CN Coumarin, 3-(2-benzimidazolyl)-7-(diethylamino)- (6CI, 7CI, 8CI)

OTHER NAMES:

CN 3-(2'-Benzimidazolyl)-7-(diethylamino)coumarin
CN 3-(2-Benzimidazolyl)-7-(diethylamino)coumarin
CN 3-(Benzimidazol-2-yl)-7-diethylamino-2H-benzopyran-2-one
CN C.I. 551200
CN C.I. Disperse Yellow 82
CN C.I. Solvent Yellow 145
CN C.I. Solvent Yellow 171
CN C.I. Solvent Yellow 185
CN Coumarin 535
CN Coumarin 7
CN D 820 Savannah Yellow
CN Day-Glo Savannah Yellow
CN Disperse Yellow 82
CN Disperse Yellow 8GFF
CN Fluorescent Yellow 9GF
CN K 7
CN Kayaset Yellow SF-G
CN Keystone Fluorescent Yellow 10G
CN NSC 303254
CN Oracet Yellow 8GF
CN Polycron Brilliant Yellow 10GF
CN Savannah Yellow
CN Setaron Brilliant Flavine 8GFF
CN Solvent Yellow 145
CN Solvent Yellow 185
CN Sumikaron Brilliant Flavine S 10G
CN Terasil Brilliant Flavine 8GFF
CN Terasil Flavine 8GFF
CN Yellow 8GFF
DR 12239-58-6, 54576-77-1, 136403-01-5, 222414-02-0
MF C20 H19 N3 O2
CI COM
LC STN Files: AGRICOLA, BEILSTEIN*, BIOSIS, CA, CAOLD, CAPLUS, CASREACT,
CHEMCATS, CHEMINFORMRX, CHEMLIST, CSCHEM, DETHERM*, IFICDB, IFIPAT,
IFIUDB, MSDS-OHS, TOXCENTER, USPAT2, USPATFULL, USPATOLD
(*File contains numerically searchable property data)
Other Sources: DSL**, EINECS**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

362 REFERENCES IN FILE CA (1907 TO DATE)
3 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
363 REFERENCES IN FILE CAPLUS (1907 TO DATE)
2 REFERENCES IN FILE CAOLD (PRIOR TO 1967)